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	Application No.	Applicant(s)	
Notice of Allowability	09/808,331	LIN, PHILIP J.	
	Examiner	Art Unit	
	Kevin C Kianni	2077	
		2877	
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MER herewith (or previously mailed), a Notice of Allowance (PT NOTICE OF ALLOWABILITY IS NOT A GRANT OF PAT of the Office or upon petition by the applicant. See 37 CFF	OL-85) or other appropriate commun	this application. If not include	ed
1. This communication is responsive to <u>2/5/04</u> .	The relativity of the second s		4.
2. The allowed claim(s) is/are 41-44, 57-66	and 76-80. At		
3. The drawings filed on 25 July 2001 are accepted by	the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign prices. a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority document. 2. ☐ Certified copies of the priority document. 	s have been received.		
3. Copies of the certified copies of the prio	rity documents have been received in	No	
international bulleau (PCT Rule 17.2(a))		ir tris riational stage applicati	on from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING D noted below. Failure to timely comply will result in ABANI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ATE" of this communication to file a DONMENT of this application.	reply complying with the requ	uirements
5. A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) which	submitted. Note the attached EXAM the gives reason(s) why the eath or d	IINER'S AMENDMENT or NO	OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets"	') must be submitted	colaration is delicient,	
(a) I including changes required by the Notice of Draft	Sperson's Patent Drawing Review (PTO 049) offers	
1) hereto or 2) to Paper No./Mail Date _		r 10-946) allached	
(b) including changes required by the attached Exan Paper No./Mail Date	niner's Amendment / Comment or in	the Office action of	
Identifying indicia such as the application number (see 37 (CFR 1.84(c)) should be written on the	drawings in the front (not the b	ack) of
DEPOSIT OF and/or INFORMATION about the cattached Examiner's comment regarding REQUIREM	denocit of PIOLOGICAL MATER	141	te the
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ttachment(s)			
. Notice of References Cited (PTO-892)	5. Notice of Inform	nal Patent Application (PTO-	(FO)
. Notice of Draftperson's Patent Drawing Review (PTO-9)	48) 6. 🗌 Interview Sumr	mary (PTO-413)	152)
☐ Information Disclosure Statements (PTO-1449 or PTO/ Paper No./Mail Date		il Date endment/Comment	٠.
Examiner's Comment Regarding Requirement for Depo	osit 8. 🛛 Examiner's Sta	tement of Reasons for Allowa	ance
of Biological Material	9. Other		aille Garage Agents
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Reason for Allowance

- Acknowledgment made of applicant's cancellation of claims 1-40, 45-56 and 67 75 in a paper submitted on 2/05/04.
 - 1. Claims 41-44, 57-66 and 76-80 are allowed for the following reasons:

The instant application is deemed to be directed to a nonobvious improvement over the invention patented in Pat. No. 6,243,178.

Claim 41 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious where k² separate signal paths in each module couple each input line to a respective output line of each module in combination with the rest of the limitations of the base claim. Claims 42-44 and 57-62 depend to claim 41 and therefore they are also allowed

Claim 63 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious where each KxK module comprises: a body portion which includes a plurality of LxL signal coupling networks with L< K; K input ports coupled to the body portion; K output ports coupled to the body portion; and a plurality of signal paths, carried by the LxL signal coupling networks in combination with the rest of the limitations of the base claim. Claims 64-65 depend to claim 63 and therefore they are also allowed.

Claim 66 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious where N1 inputs comprise N1/K group groups of signal carriers coupled to a corresponding number of KxK modules; and where the plurality

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comprises (N1/K x N2/K) modules in combination with the rest of the limitations of the base claim.

Claim 76 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious KxK interconnect modules, K<N, each module having k² inputs coupled to k² outputs with each line coupled to only one output by a separate optical transmission fiber in combination with the rest of the limitations of the base claim. Claims 77-80 depend to claim 76 and therefore they are also allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Contact Information

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to K. Cyrus Kianni whose telephone number is (571) 272-2417.

The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 6:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font, can be reached at (571) 272-2415.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9306 (for formal communications intended for entry)

õr:

Hand delivered responses should be brought to Crystal Plaza 4, 2021 South Clark Place, Arlington, VA., Fourth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0956.

K. Cyrus Kianni Patent Examiner Group Art Unit 2877 Frank Font
Supervisory Patent Examiner
Group Art Unit 2877

May 4, 2004